OWNERS MANUAL

FOR 500®, 505™, 535™, 590® AND 835® MODELS PUMP ACTION SHOTGUNS

IMPORTANT "SAFETY WARNINGS" - NOTE THE SYMBOL

THESE SAFETY WARNINGS ARE FOR YOUR PROTECTION AS WELL AS THE SAFETY OF OTHERS. DISREGARDING INFORMATION IN THIS MANUAL MAY RESULT IN SERIOUS INJURY OR DEATH.

Be certain this owner's manual is available for reference and is kept with this firearm if transferred to another party. If manual is lost or misplaced, contact Mossberg for a free replacement copy.

After performing any work on your firearm such as cleaning, adjustments, disassembly or installation of any accessory, the firearm should be re-checked for proper functioning before firing live ammunition.

Firearms are complicated mechanisms. Any modification, alteration, or improper fitting of parts may result in a dangerous malfunction, damage to the firearm and injury to the shooter and other persons. The firearm's owner is responsible for the correct reassembly and functioning of the firearm after any disassembly or replacement of parts.

If you do not understand any of the material in this manual or have any questions, contact Mossberg or a qualified gunsmith directly.

Do not attempt to load or use any firearm until you have read and understood the information contained in its owner's manual. Before handling your firearm, you should learn how it operates and how to maintain it. This includes knowing its basic parts, how the manual safety and other safety features operate, how to safely open and close the action and how to safely load and unload ammunition from the firearm. Improper use and handling is dangerous and could cause serious injury or death to you or those around you. All users of the firearm must become thoroughly familiar with the instructions in this manual.

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Safety and safe firearms handling is everyone's responsibility.

As the owner of a firearm, you must undertake the full-time responsibility of safe firearms handling for your own safety and the safety of those around you:

- Keep all firearms and ammunition out of the reach of children.
- Store your firearms and ammunition separately.
- Never store a loaded firearm.
- Never leave a loaded firearm unattended.
- Never transport a loaded firearm in a vehicle.
- Unload your firearm when you have stopped shooting and when you have to climb a tree, fence, cross a slippery surface or have to transport it in a vehicle.
- Do not load your firearm before you are in a place where it is safe to shoot and keep your finger off the trigger until you are on target and have decided to fire.
- Never shoot at water, rocks or any hard surface. Shots may glance off such surfaces and cause injuries.
- Do not use alcohol or drugs before or while handling firearms.
- Do not touch trigger while the safety button is being engaged or disengaged.

Always point the muzzle of your firearm in a safe direction, regardless of whether the firearm is loaded or unloaded.

Always treat every firearm as if it were loaded. Give your firearm to someone with the action open (bolt fully rearward) and safety fully rearward in the “ON” (SAFE) position after you verify the firearm is unloaded. Insist on the same procedure when receiving a firearm from someone else. Learn the location of all the safety features of your firearm and how they operate.

Wear eye and ear protection when shooting. Shooting without proper ear protection can cause hearing damage. The use of eye protection during any type of shooting is important to protect your eyesight.

Due to the heavy recoil of a shotgun, maintain an adequate distance between the rear of the scope (if equipped) and your face at all times. Be certain the scope installation does not interfere with access to, or the proper functioning of the safety button.

WE SPECIFICALLY DISCLAIM ANY RESPONSIBILITY FOR DAMAGE OR INJURY WHATSOEVER OCCURRING IN CONNECTION WITH, OR AS A RESULT OF, THE USE OF FAULTY, OR NON-SAAMI STANDARD, OR “REMANUFACTURED” OR HAND-LOADED (RELOADED) AMMUNITION. ADDITIONALLY, WE DISCLAIM ANY RESPONSIBILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM ANY MODIFICATIONS OR CHANGES THAT ARE NOT A PART OF THE FIREARM AS DELIVERED FROM THE FACTORY.

Learn to clean your firearm thoroughly and make certain no oil, grease or other materials are blocking the barrel. Obstructions of any kind can cause damage to the firearm and may result in serious personal injury to the shooter and/or others nearby.

Practice proper firearm maintenance and safety. Make sure all exposed metal surfaces are coated with a thin film of oil, especially after exposure to damp weather. (See proper section of this manual for cleaning instructions.) Do not plug barrel or store in fabric-lined case which will absorb lubricants from the firearms. Before using after storage, follow complete instructions stated in this manual for refamiliarization with the firearm. A thorough inspection should be performed before going into the field. Have your firearm periodically checked by a qualified gunsmith.

A note about the warnings and information contained in this Manual:

We strongly suggest that you check with your local licensed retailer or state police for additional information concerning firearms ownership, or hunting or target shooting rules that may be required by local law or regulation. Since such rules and regulations are subject to change, local authorities are in the best position to advise you on such matters.

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OPERATING INSTRUCTIONS

Read and understand this entire manual and its safety warnings before handling this firearm.

MECHANICAL SAFETY

The safety button is located on the top rear portion of the receiver (Fig. 2) and must be manually moved to the desired position by the shooter.

To put the safety in the "ON" (SAFE) position, the safety button must be moved fully rearward into the safety detent. The button will now cover the red dot. The red dot is a training aid used only to show the direction of the "ON" (SAFE) position and should not be used as an indicator that the safety is "ON" or "OFF" (Fig. 2). Moving the safety button forward toward the muzzle of the shotgun will put the safety in the "OFF" (FIRE) position.

Remember, a firearm's manual safety is a mechanical device which can never replace safe firearm handling practices.

Never rely on any mechanical mechanism or safety device to prevent the dangers of careless handling or pointing a firearm in an unsafe direction.

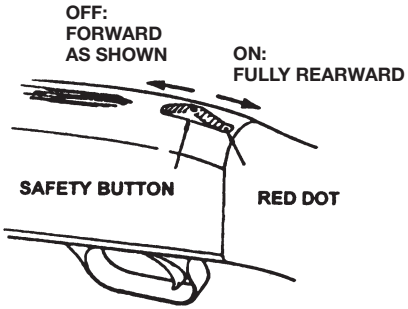


Fig. 2

ACTION RELEASE CONTROL

The action lock lever is located on the left side of the trigger housing just rearward of the trigger guard.

The action lock lever allows the action to be unlocked and opened for inspection of the chamber and action or unloading without pulling the trigger. The action may be opened by depressing the lever and pulling the forearm rearward (Fig. 3).

NOTE: During firing, the action unlocks automatically after the hammer falls and the action can be cycled without depressing the action lock lever.

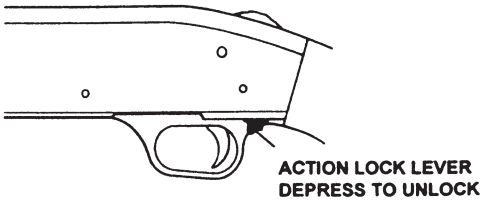


Fig. 3

BARREL ASSEMBLY

Barrels are **not** interchangeable between model numbers, gauge or capacity. **500®, 505™, 535™, 590®** and **835®** barrels are interchangeable only with barrels of the same model, gauge and capacity.

CAUTION: Never close the action or pull the trigger while the barrel is removed as damage could result to the firearm.

To facilitate shipping, some models are packaged with the barrel removed. To install the barrel in the receiver, proceed as follows:

Visually and physically inspect the chamber and bore of the barrel to make certain it is unloaded and that it is free of any obstructions, excessive oil or grease. If you are unable to remove all obstructions, bring the firearm to a qualified gunsmith or send it to the authorized Product Service Center. Obstructions of any kind can cause damage to the firearm and may result in serious personal injury to the shooter and/or others nearby.

Move the safety button fully rearward to the “ON” (SAFE) position (Fig. 2).

All Models: Depress the action lock lever, (Fig. 3) and move the forearm rearward until the front of the bolt is in the middle of the ejection port (Fig. 7).

CAUTION: Wear eye protection.

590®/835® Models: Unscrew the magazine cap by turning it counterclockwise.

Slide the barrel takedown mount ring over the magazine tube while guiding the barrel extension portion of the barrel into the receiver (Fig. 4).

Gently rotate the barrel back and forth while pushing the barrel into the receiver.

Slide the barrel into the receiver and tighten the magazine cap, finger tight only. DO NOT use pliers or a wrench to tighten magazine cap.

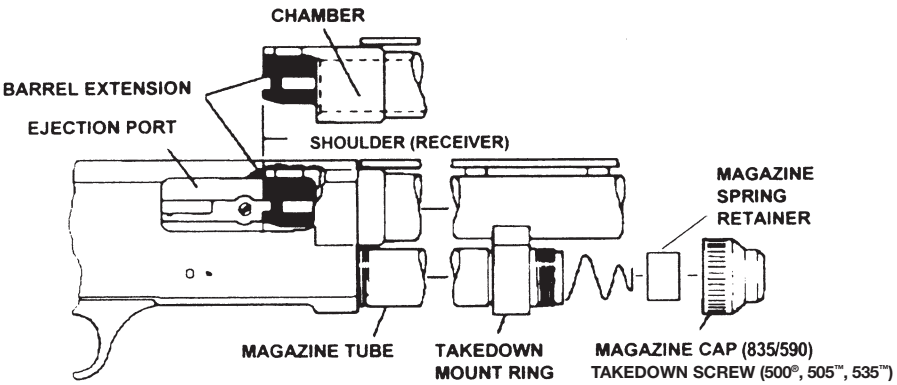


Fig. 4

If your 590/835 shotgun is equipped with a magazine spring retainer, prior to putting on the magazine cap, assemble the magazine spring retainer over the protruding magazine spring. Push the retainer downward inside magazine tube so that the spring retainer is flush with the magazine tube end.

CAUTION: The magazine spring exerts pressure on the retainer. Use caution when disassembling.

To disassemble: Pry up at various points around the small hole in the center of the magazine spring retainer. Cup hand over retainer and magazine so as to keep spring and retainer confined. Use caution not to bend or distort the magazine tube end and or threads.

500®, 505™ and 535™ Models: Slide the barrel into the receiver and tighten the takedown screw, finger tight only. DO NOT use pliers or a wrench to tighten the takedown screw. A little space between the magazine tube and the takedown mount is normal.

WARNING (all models): Check to be certain that the barrel is fully seated into the receiver by looking through the ejection port. The barrel extension must rest firmly against the corresponding cut in the top of the receiver as shown in Figure 4.

MAGAZINE CAPACITY

835® Models: Total ammunition capacity (including one in the chamber) is six (6) 2-3/4" or 3" or five (5) 3-1/2" shells.

535™ Models: Total ammunition capacity (including one in the chamber) is five (5) 2-3/4" or 3" and four (4) 3-1/2"shells. Depending upon tolerance variations, total capacity may be reduced by one round when using 3" shells.

500® Models: Total ammunition capacity (including one in the chamber) is six (6) 2-3/4" shells. Depending upon ammunition tolerance variations, total capacity may be reduced by one round when using 3" shells.

505™ Models: Total ammunition capacity (including one in the chamber) is five (5) 2-3/4" or five (5) 2-1/2" shells. Depending upon ammunition tolerance variations, total capacity may be reduced by one round when using 3" shells.

590® Models: Total ammunition capacity (including one in the chamber) is nine (9) 2-3/4" or eight (8) 3" shells.

NOTE: To comply with U.S. migratory bird laws, all five and six shot models are shipped with a wooden dowel inserted in the magazine tube which limits magazine capacity to two (2) shells.

835® Models: To remove the dowel, first remove the barrel. Point the shotgun downward and shake it back and forth lightly until the dowel falls out.

To change back to a 2-shot magazine capacity insert the dowel through the center of the magazine spring so that it is positioned inside the coils of the spring.

500® Bantam™ Model, Super Bantam and 505™ Models: This Model is supplied as a single shot. An extra long wooden dowel blocks magazine loading. After proper firearm training the dowel can be removed to cut to 9" to comply with appropriate laws. See below for removal instructions.

500® and 535™ Models: To remove the dowel, first remove the barrel. Point shotgun downward and shake it back and forth lightly until the dowel protrudes from the takedown screw hole in the end of the magazine tube. A rubber "O" ring on the dowel prevents it from falling out accidentally. Grasp the dowel and pull it completely out.

LOADING

Before loading, move the safety button fully rearward (Fig. 2) to the "ON" (SAFE) position.

During loading, never allow fingers or any objects to contact the trigger. Keep the muzzle pointed in a safe direction at all times.

Depress the action lock lever (Fig. 3) and open the action by pulling the forearm completely rearward.

Do not load firearm until ready to use! Unload firearm when shooting has been completed! The safety button should always be fully rearward in the "ON" (SAFE) position whether or not the firearm is loaded.

Inspect the chamber and bore of the barrel for any obstruction, excessive oil or grease. (The chamber is the rear portion of the barrel which contains the cartridge (Fig. 4).) Obstructions of any kind can cause damage to the firearm and may result in serious personal injury to the shooter and/or others nearby.

Check to be certain that the ammunition selected is the same type of cartridge as designated on the left side of the barrel.

835® Models are designated to fire 12 gauge 2-3/4", 3", or 3-1/2" factory loaded ammunition. Do not fire slugs of any type (single projectile ammunition) through the overbored **835** Accu-Mag barrel. This barrel is designated to shoot lead or steel pellet shot loads only. Use only **835** barrels designated specifically for slug shooting.

535™ Models are designed for factory loaded 2-3/4", 3", and 3-1/2" shells and rifled slugs.

590® Models handle 12 ga. 2-3/4" or 3" magnum shells. **500® and 505™ Models** are designed for 2-3/4" (2-1/2" .410 bore) and 3" magnum shells within gauge.

Fully rifled barrels deliver best accuracy with sabot style slugs. "Rifled" slugs and shotshells are not recommended for use in rifled barrels.

If you wish to load the firearm with the maximum number of shells, or fire single shots, load the first shell through the ejection port located on the right side of the receiver (Fig. 5). The shell can be inserted directly into the chamber or placed on top of the elevator. Close the action by moving the forearm completely forward. Be sure to leave the safety "ON" (fully rearward) until you are ready to shoot.

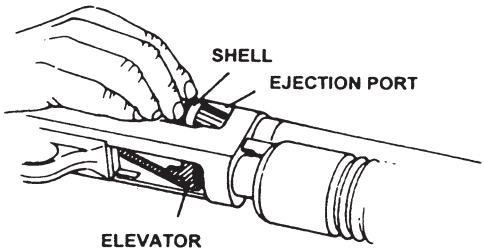


Fig. 5 — Loading through the ejection port

The firearm is now loaded and will fire if the safety is moved to the "OFF" (FIRE) position and the trigger is pulled. Keep the muzzle pointed in a safe direction at all times.

LOADING MAGAZINE

Load the magazine tube by turning the shotgun so that the trigger guard is facing up and the action is closed. Push the front end of the shell into the magazine tube until the rim of the shell snaps past the cartridge stop (Fig. 6 & 9). Never attempt to exceed the magazine capacity.

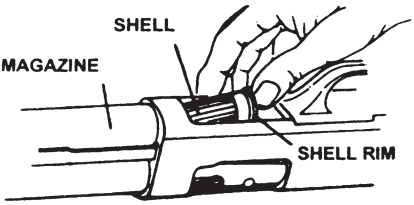


Fig. 6

Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and/or substances known to cause birth defects, reproductive harm, and/or other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.

FIRING

With the firearm pointed in a safe direction and held in the proper firing position, move the safety button fully forward to its "OFF" (FIRE) position. Pulling the trigger through its full travel to the rear will cause the firearm to fire. Ensure muzzle is pointed in a safe direction before placing finger on trigger.

Should the shotshell fail to fire, keep the firearm pointed in a safe direction and move the safety button fully rearward to the "ON" (SAFE) position. Wait a few moments and then remove the misfired shell and keep separate from other ammunition. Do not attempt to refire a misfired round.

If at any time during firing, the sound of any shell is noticeably louder or softer than the previous shells fired, STOP! Do not load or fire additional shells until you have put safety in the "ON" (SAFE) position and safely unloaded your firearm. Inspect the firearm for possible damage or obstructions in the chamber or bore. (The bore is the inside surface of the barrel.) Firing the shotgun with a bore obstruction can cause damage to the firearm and may result in serious personal injury to the shooter and/or others nearby.

CYCLING THE ACTION

To eject a shotshell case, pull the forearm completely rearward. The spent case or unfired shotshell will eject out of the receiver through the ejection port.

Be sure that all observers are clear of the path of ejection. Empty cases are thrown out with significant force and could cause injury.

To chamber a live shotshell from the magazine, push the forearm fully forward.

Remember: when the magazine tube is loaded and the action is cycled, a live shotshell will be chambered! Always keep the safety in the "ON" (SAFE) position until you have actually decided to fire.

UNLOADING

Move the safety button fully rearward to the "ON" (SAFE) position and keep the muzzle pointed in a safe direction while unloading the firearm.

Depress the action lock lever (Fig. 3) and pull the forearm rearward, slowly, until the live shotshell is completely withdrawn and visible in the ejection port. Remove shotshell by hand.

Continue pulling the forearm rearward to release the next shotshell onto the elevator.

Turn the shotgun so that the ejection port faces downward to allow the released shotshell to drop out through the ejection port.

Push the forearm completely forward, closing the bolt **without** a shell being chambered.

Turn the shotgun over so that the trigger guard is positioned upward and the shotgun remains pointed in a safe direction.

Insert your right thumb into the opening in the bottom of the receiver and depress the cartridge stop on the right side to release shotshells one at a time (Fig. 9). Repeat until all shotshells are removed from the magazine tube.

Depress the action lock lever and pull the forearm completely rearward. Visually and physically inspect chamber, elevator and magazine tube to be certain the shotgun is completely unloaded.

Leave the action in the open, rearward position and the safety button fully rearward in the "ON" (SAFE) position.

DISASSEMBLY

Move the safety button fully rearward to the "ON" (SAFE) position and visually and physically check the chamber, elevator, and magazine tube to be certain the shotgun is unloaded before disassembling the firearm. Wear eye protection during disassembly and cleaning.

Depress the action lock lever (Fig. 3) and open the action by sliding the forearm fully rearward.

Move the forearm slowly forward from the fully rearward position until the front of the bolt is in the middle of the ejection port (Fig. 7).

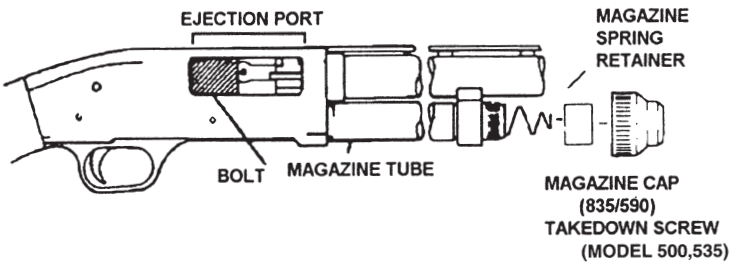


Fig. 7 — Removal of barrel

CAUTION: The **590® and 835® Model** magazine spring retainers and springs are under significant spring pressure. Use caution should removal be necessary to prevent injury to yourself or others around you.

590® and 835® Models: Unscrew the magazine cap by turning it counterclockwise.

Remove the barrel from the receiver with a gentle back-and-forth rotational movement while pulling the barrel out of the receiver assembly.

500®, 505™ and 535™ Models: Loosen the takedown screw by turning it counterclockwise until the screw threads are completely disengaged from the end of the magazine tube (Fig. 7).

Remove the barrel from the receiver with a gentle back-and-forth rotational movement while pulling the barrel out of the receiver assembly.

TRIGGER HOUSING ASSEMBLY REMOVAL

Position the shotgun on a clean surface with the trigger guard upward. With a blunt object (no greater than 3/16" [4.76 mm] diameter), push out the small diameter trigger housing retainer pin located on the side of the receiver, approximately a 1/2" (12.7 mm) below the rear of the trigger guard (Fig. 8).

Remove the trigger housing assembly by lifting the rear portion upward first.

The trigger housing assembly is a complex assembly and must not be disassembled. Disassembly should only be performed at an authorized Product Service Center or by a qualified gunsmith.

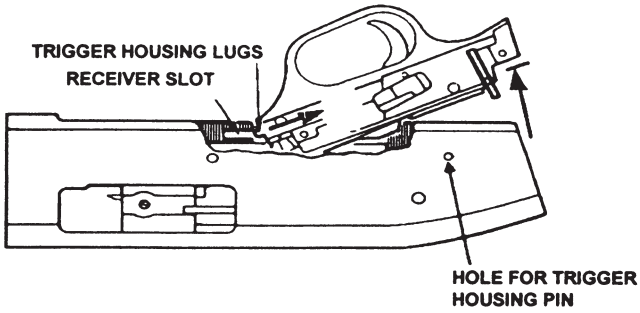


Fig. 8

Do not pull the trigger and allow the hammer to fall when the trigger housing assembly is removed from the receiver. To do so may result in personal injury and/or damage to the assembly.

CAUTION: Field disassembly is now complete. The firearm should not be disassembled any further for routine cleaning or maintenance. Further disassembly should only be performed at an authorized Product Service Center or by a qualified gunsmith.

CAUTION: Before performing any further disassembly, take time to study how the internal components are arranged inside the receiver.

DISASSEMBLY OF INTERNAL RECEIVER COMPONENTS

CAUTION: Pay special attention to the position of the bolt, bolt slide and action slide bar assembly during this portion of the disassembly, as the parts must be in the same relationship during reassembly.

Remove the cartridge interrupter from the ejection port side and cartridge stop from the opposite side. (It may be necessary to tap the sides of the receiver lightly to release these parts) (Fig. 9).

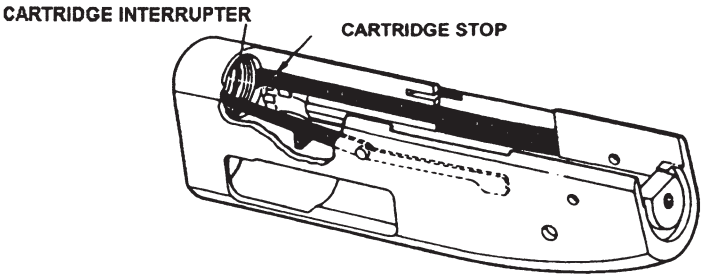


Fig. 9

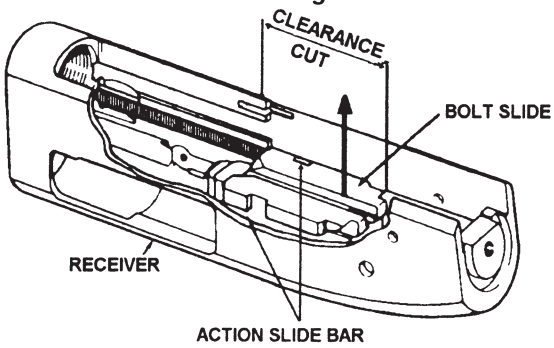


Fig. 10 — Bolt slide removal

Move the forearm/action slide assembly rearward so that the bolt assembly and bolt slide are three quarters of the way rearward. When the bottom of the bolt slide is aligned with the clearance cuts in the sides of the receiver, lift the bolt slide upward and out of the receiver (Fig. 10).

Remove the bolt assembly by sliding it forward and out of the receiver assembly through the barrel opening at the front of the receiver (Fig. 11-A).

NOTE: The safety button located on the upper rear of the receiver must be fully rearward in the “ON” (SAFE) position to remove the elevator assembly (Fig.2).

Pivot the front portion of the elevator upward out of the receiver (Fig. 11-B). Squeeze the two arms which form the open end of the elevator assembly together sufficiently to disengage and remove the elevator from the receiver (Fig. 11-C).

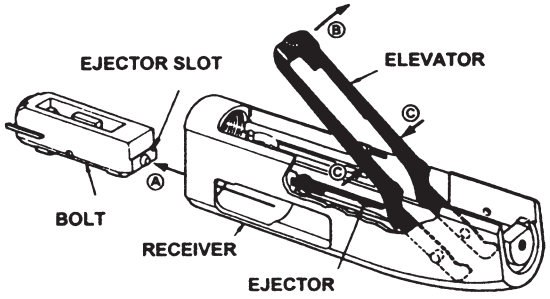


Fig. 11 — Elevator removal

Remove the forearm/action slide assembly by sliding it forward and off the magazine tube.

CAUTION: Field disassembly is now complete! The shotgun should not be disassembled further for routine cleaning or maintenance. Further disassembly should only be performed at the factory or by a qualified gunsmith.

CLEANING AND LUBRICATION

With proper maintenance and care, your Mossberg® firearm will provide you with years of dependable service. Your firearm should be inspected and cleaned periodically to ensure that it remains in good condition. Clean your firearm as soon as possible after use. This is especially important if your firearm has been exposed to moisture. For maximum performance and continued satisfaction with your firearm, periodic cleaning and lubrication are essential.

Follow the instructions and equipment provided with a quality gun cleaning kit.

Always be sure that the safety button is fully rearward in the "ON" (SAFE) position (Figure 1) and that the firearm is unloaded by visually and physically checking the chamber, elevator, and magazine tube before cleaning your firearm. Wear eye protection during cleaning.

Normal use requires only that the mechanisms be free of excessive shooting residue. Very little lubrication other than a light oiling of internal and external surfaces to prevent rust is needed.

To ensure optimum performance, Mossberg recommends thorough cleaning of your firearm after every 200 rounds. However, unusually dusty, dirty, or harsh weather conditions, or use of ammunition which leaves significant powder residue may require more frequent cleaning.

If the firearm is to be stored for a long period of time, it should be thoroughly cleaned and oiled. Do not plug the barrel or store in a fabric-lined case that will absorb lubricant from the firearm, as this may result in corrosion to the unprotected metal surfaces.

Over-lubrication should be avoided during below freezing conditions. Many lubricants thicken in low temperatures which could affect the operation of the firearm. Exposure to unfavorable weather or moisture from condensation requires additional care to prevent corrosion to the firearm.

BARREL CLEANING

Scrub bore and chamber with solvent and follow with cleaning patches until barrel is clean. A final pass with a lightly oiled patch will provide a protective coating. A stiff brass bristle brush is useful for removing stubborn deposits.

Be sure not to leave cleaning patches or excessive oil or grease in the bore as they can create dangerous obstructions. Obstructions of any kind can cause damage to the firearm and may result in serious personal injury to the shooter and/or others nearby.

ACTION CLEANING

Clean all components of the action including the bolt, bolt slide and action slide bars (Figure 11) to remove accumulated residue. An evaporating solvent should be used. Action parts will remain cleaner longer if lubrication is used sparingly.

RECEIVER CLEANING

Clean the inside of receiver with a rag or soft brush, giving special attention to the tracks which guide the bolt and bolt slide. Place a few drops of light oil in these tracks when clean. Care should be taken when cleaning the exterior surfaces of the receiver to prevent cosmetic damage. Never use a brush with metal bristles, as this could remove the protective coating on the receiver.

TRIGGER HOUSING CLEANING

Brush loose residue from trigger housing with a soft bristle brush. Never use a brush with metal bristles, as this could remove the protective coating on the trigger housing.

Never pull the trigger while the trigger housing is removed from the receiver, as damage to the trigger housing and/or personal injury may result.

ASSEMBLY OF INTERNAL RECEIVER COMPONENTS

Place the receiver with the trigger housing opening upward on a clean surface.

Check to be certain that the safety button on the top rear of the receiver is fully rearward in the "ON" (SAFE) position (Fig. 2). Slide the forearm assembly onto the magazine tube while guiding the action slide bars into the corresponding cuts in the front of the receiver (Fig. 12).

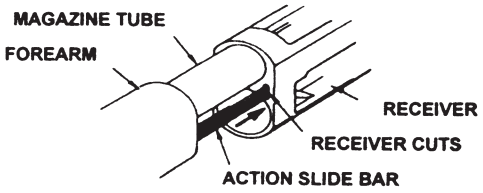


Fig. 12

Assemble the elevator by squeezing the arms together sufficiently to position them in the receiver so that the buttons on the elevator fit into the corresponding (1/4" [6.4 mm]) diameter holes in the receiver (Fig. 11).

Pivot the elevator so that the forward portion of the elevator is even with the outside edge of the cavity in the receiver.

Insert the rear of the bolt assembly, with its bolt lock downwards toward the front inside top of the receiver, into the barrel opening of the receiver. Depress the ejector (located in the side of the receiver opposite the ejection port) to allow the bolt assembly to slide fully rearward into the receiver.

The ejector must fit into the corresponding slot in the bolt (Fig. 11).

Push the elevator down until it rests against the bolt. Position the rear of the bolt assembly even with the rear of the clearance cuts in the sides of the receiver (Fig. 13-B).

Position action bars so the notch on the bar is even with the cuts on the inside receiver walls (Fig. 13-A).

The bolt slide should be positioned with the slotted side facing up, with notch to the rear (Fig. 13).

Assemble the bolt slide, lowering the front of the bolt slide first. The bolt slide protrusion fits into the corresponding cut on the bottom of the bolt lock and action bar slots (Fig. 13-C).

Hold the bolt slide down and pull the forearm assembly forward. The bolt and bolt slide should move freely in their cuts in the receiver. If parts do not slide easily – DO NOT FORCE – disassemble and reassemble, paying attention to the relationship of the bolt, bolt slide and action slide bars.

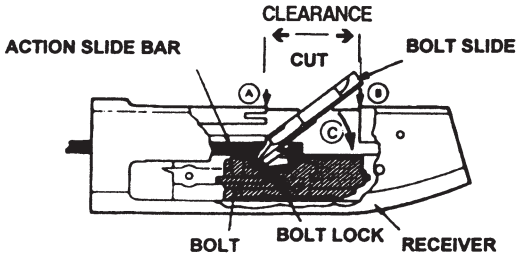


Fig. 13

Position the cartridge stop and cartridge interrupter in their proper places on the inside walls of the receiver (Fig. 9).

The hooks must face inward toward the center of the cavity away from the receiver walls.

TRIGGER HOUSING ASSEMBLY INSTALLATION

NOTE: Hammer must be in the fully-cocked position to allow the trigger housing to be inserted in the receiver.

Hold the cartridge stop and cartridge interrupter in place firmly against the receiver walls with one hand and grasp the trigger housing assembly with the other (Fig. 9).

Insert the lugs on each side of the front corner of the trigger housing into the slots on each side of the receiver (Fig. 14-A), then ease the rear of the housing assembly down and into position (Fig. 14-B). DO NOT FORCE!

NOTE: If the trigger housing does not fit into place easily, check that all internal trigger housing pins are flush with the side of the housing and that the cartridge interrupter and cartridge stop are positioned properly.

Align the trigger pin hole in the housing assembly with those in the receiver. Insert the trigger housing pin and push in fully until flush with the side of the receiver (Fig. 14).

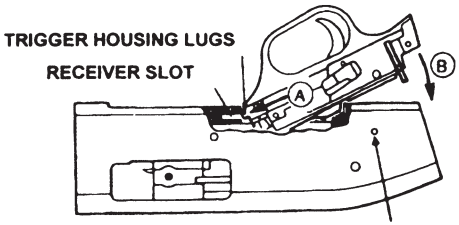


Fig. 14

FUNCTION TESTING

After performing any work on your firearm such as cleaning, disassembly or installation of any accessory, check your firearm for proper functioning before firing any live ammunition.

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

Depress and hold the action lock lever (Fig. 3). Open and close the action several times to check for free movement of the action assembly.

Close the action (forearm fully forward) and leave the safety button in the "ON" (SAFE) position. Pull the trigger rearward fully. The hammer should not fall (No Fire).

Remove your finger from the trigger. Move the safety button to the "OFF" (FIRE) position.The hammer should not fall (No Fire).

Leave the safety button in the "OFF" (FIRE) position.

Pull the trigger rearward. The hammer should fall (Fire).

Open the action by moving the forearm fully rearward. Move the safety button fully rearward to the "ON" (SAFE) position.

IF YOUR FIREARM DOES NOT PERFORM AS DESCRIBED IN ANY OF THE ABOVE STEPS, CONTACT THE FACTORY AUTHORIZED PRODUCT SERVICE CENTER IMMEDIATELY. DO NOT ATTEMPT TO USE THE FIREARM.

SIGHT ADJUSTMENTS

BEFORE MAKING ANY SIGHT ADJUSTMENTS:

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

RIFLE SIGHT ADJUSTMENTS

Williams Style rear sight:

Elevation may be adjusted by loosening the side screw on the rear sight leaf base. This will allow the sight leaf base to be raised or lowered by sliding the base up or down the rear sight ramp. Tighten screw after adjustment.

Windage may be adjusted by loosening the top screw and sliding the sight leaf left or right in the sight leaf base. Tighten screw after adjustment.

Remember: Move the rear sight in the same direction you would like the shot to move. For example, if the point of impact is low and left of the point of aim, move the rear sight upward and to the right.

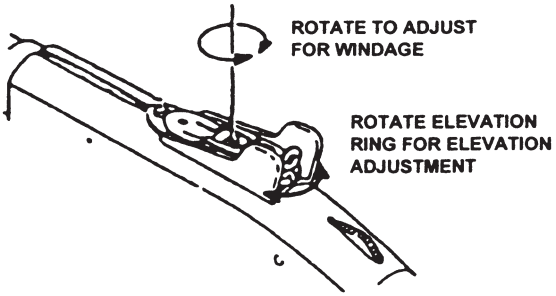


Fig. 15

MOSSBERG ACCESSORY BARRELS

Accessory barrels are interchangeable only within specific model, gauge and magazine capacity.

500® Models: HS410™ barrels are not interchangeable with standard 500® .410 bore sporting barrels.

PISTOL GRIP INSTALLATION

BEFORE PERFORMING ANY DISASSEMBLY OR ASSEMBLY PROCEDURE:

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

To Remove Buttstock:

1) Loosen the top screw holding the recoil pad or buttplate on stock. Note: Most models use Phillips head screws.

2) Loosen and remove the bottom recoil pad or buttplate screw.

3) Swing the recoil pad or buttplate around the top screw which will allow access to the stock bolt through the stock butt hole.

4) Check stock bolt head configuration. Some models use a slotted head,others use a 1/2 in. hex head.

5) Loosen and remove stock bolt by turning it counterclockwise. The stock may now be removed from the receiver.

Installation of Pistol Grip:

1) Align mounting hole in pistol grip with threaded hole in rear of the receiver.

2) Slip washers on bolt. Insert bolt through pistol grip into hole in receiver. Finger tighten bolt to insure threads are properly engaged. If you encounter difficulty, unscrew both and repeat procedure.

3) Using Allen wrench supplied, tighten bolt very snugly.

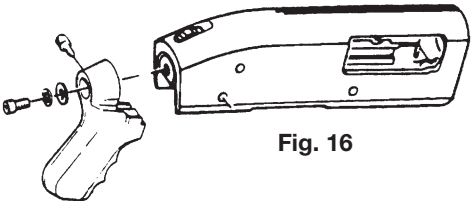


Fig. 16

Upon firing, recoil force will cause the firearm to move rearward and upward. Never hold the firearm at eye level and attempt to sight down the barrel. To avoid possible injury, grip the firearm securely with one hand on the forearm and one hand on the pistol grip. Pistol grip models are designed to be held at waist level when firing.

SPEEDFEED® STOCK

BEFORE CLEANING OR REMOVING THE SPEEDFEED® STOCK:

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

The stock springs and followers should be removed periodically and the tubes and parts cleaned to remove debris. Do not lubricate these parts.

The recoil pad on the speedfeed stock is under spring pressure. Remove rounds from storage tubes to minimize the spring pressure. Use caution when removing recoil pad screws to prevent injury to yourself or others around you.

a) Loose and remove the two recoil pad screws by turning them counterclockwise.

b) Remove recoil pad, springs and plastic followers. Place on a clean dry surface.

TO REASSEMBLE

1) Insert one plastic follower into each magazine tube in the stock. Be sure the hollow portion of the follower is facing toward the rear of the stock.

2) Insert one spring in each of the two magazine tubes. The springs will fit inside the cupped end of the followers inserted in the previous step.

3) Screw the recoil pad screws into the recoil pad until the screw points come through the opposite side about 1/8 of an inch. Place the pad against the springs so that the end of each spring rests against the recessed area on the pad.

4) Compress the springs into the tubes by pushing the pad flush against the stock. Adjust the pad until you feel the points of the screws fit into the pre-drilled holes in the stock.

5) While maintaining pressure on the pad, tighten the recoil pad screws securely. Do not overtighten screws.

6) Check for free movement of the followers by pushing them into the magazine tube with your finger and allowing them to snap back into position under spring pressure.

HEAT SHIELD

BEFORE PERFORMING ANY DISASSEMBLY OR ASSEMBLY PROCEDURE:

a. Move the safety button fully rearward to the “ON” (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

HEAT SHIELD INSTALLATION

NOTE: The heat shield can only be installed on 12 ga., plain barrel models. The heat shield will not fit on barrels with Ghost Ring® sights.

1) Follow barrel removal procedures as described in this Owner’s Manual.

2) Carefully remove front sight by turning it counterclockwise. Take precautions to insure you do not damage the barrel finish.

3) Slide heat shield onto barrel from the muzzle end. The large ring on heat shield must be positioned towards the rear of barrel.

4) With the heat shield on the barrel, use a small padded “C” clamp or a vise, to close the forward clamp of the heat shield.

5) Position the appropriate length plastic spacer or optional bushing style spacers between the forward clamp. Insert the two screws and start the two hex nuts on the screws using a 7/64” hex key wrench and a 5/16” open end or box wrench. DO NOT FULLY TIGHTEN THE TWO SCREWS YET (Fig. 17).

6) Reassemble barrel to action.

When securing heat shield, the barrel must be attached to shotgun. Barrels with heat shield secured are not interchangeable without proper refitting of heat shield to firearm as described in the above procedure.

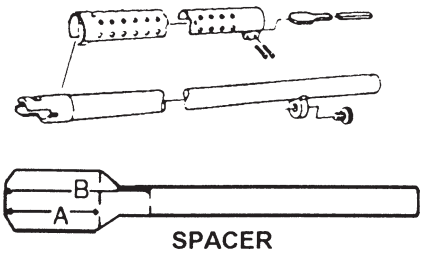
Make sure takedown screw or magazine cap is secure and the barrel is fully seated before proceeding to the next step.

7) Position heat shield so that the rear (large ring) butts up against the front of the receiver.

8) Using a 7/64” Allen wrench and a 5/16” open end or box wrench, tighten the clamp screws to securely hold the heat shield in place. DO NOT OVERTIGHTEN THE SCREWS.

9) Reinstall front sight.

Whenever the heat shield barrel is removed from the shotgun, repeat the above steps 5-8 to insure that the shield is not preventing the barrel from being seated fully.



SPACER

Fig. 17

500® AND 590® MODELS 6-SHOT CUT AT 1 5/16" (A)
590 MODELS WITH ACCESSORY LUG CUT AT 1 7/8" (B)
590 MODELS WITHOUT ACCESSORY LUG, USE AS IS.

DUAL - COMB® TROPHY STOCK

BEFORE PERFORMING ANY DISASSEMBLY OR ASSEMBLY PROCEDURE:

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

To Change Removable Combs:

1) Using a 3/16 inch Allen head wrench (supplied) unscrew and remove the comb retaining screw found at the top center of the removable comb.

2) Place the desired comb into position. Insert the comb retaining screw and snug-tighten. Do not overtighten as this will damage the internal assembly components.

ACCU, ACCU-MAG CHOKE TUBES

BEFORE REMOVING OR INSTALLING ANY CHOKE TUBE:

a. Move the safety button fully rearward to the "ON" (SAFE) position and keep muzzle pointed in a safe direction.

b. Open the action, visually and physically check chamber, elevator and magazine tube to be certain the firearm is unloaded.

Do not use bent or deformed choke tubes as these may result in tube or barrel damage upon firing which may cause serious personal injury. Inspect choke tubes periodically to insure they are properly installed and in good condition. Pay special attention to the threaded end of the choke tube to be certain it is not deformed or dented.

Never fire this firearm without a choke tube properly installed. Failure to do so will damage the precision threads on the inside of the barrel. Firing this firearm with loose choke tubes may lead to damage to the choke tube and barrel, as well as serious personal injury.

CARE & CLEANING: The precision threads on your choke tube should be kept clean and lightly oiled at all times.

During cleaning of the barrel, be certain a choke tube is properly installed. This will avoid residue build-up on threads.

Extra-Full choke tubes are not recommended for use with buckshot or slugs.

The “Improved Cylinder” choke tube will usually produce the best accuracy with most slugs.

ACCU-CHOKE™ TUBES

ACCU-CHOKE™ TUBES - are designed for use with LEAD or STEEL shot. Each durable choke tube is clearly marked, as a guide, with the pattern it will produce.

TO REMOVE CHOKE TUBE: Loosen with choke wrench provided, turning it counterclockwise. When the choke tube is loosened, remove it completely with your fingers. Place choke tube on a clean, dry surface.

TO INSTALL CHOKE TUBE: Screw the tube clockwise into barrel by hand and then tighten the tube until snug with the choke wrench. Flush fitting tubes fit completely inside the barrel when properly installed. Do not use excessive force when installing. Tube tightness should be checked periodically.

Tube tightness should be checked periodically.

ACCU-CHOKE™ TUBES

GAUGE	ITEM #	LEAD SHOT PATTERN*	Extended Or Flush Fitting
12	95235	Skeet	Flush
12	95200	Improved Cylinder	Flush
12	95170	Improved Cylinder	Extended, Ported
12	95195	Modified	Flush
12	95180	Modified	Extended, Ported
12	95245	Improved Modified	Flush
12	95190	Full	Flush
12	95240	X-Full	Flush
12	95268	XX-Full Turkey	Extended, Ported
12	95267	XX-Full Turkey (Lead Only)	Extended
20	95225	Improved Cylinder	Flush
20	95220	Modified	Flush
20	95215	Full	Flush
20	95230	X-Full Turkey (Lead Only)	Flush
20	95231	X-Full Turkey	Extended, Ported

* Lead, steel, and other non-toxic shot patterns will vary substantially depending on shell length, shot size, brand of ammunition, and the individual barrel. The shooter is urged to conduct pattern tests before field use.

ACCU-MAG™ CHOKE TUBES (835 MODELS ONLY)

ACCU-MAG choke tubes are internal, flush fitting or extended choke tubes designed for use with LEAD or STEEL shot. Each durable tube is clearly marked, as a guide, with the lead and the steel shot pattern it will produce.

To **remove** a choke tube from the muzzle of the barrel, loosen with the choke wrench provided, turning it counterclockwise. When choke tube is loosened, remove it completely with fingers. Put choke tube on a clean, dry surface.

To **install** choke tube, screw the tube clockwise into barrel by hand and then tighten the tube until snug with choke wrench. Flush fitting tubes fit competely inside the barrel when properly installed. Do not use excessive force when installing.

Tube tightness should be checked periodically.

ACCU-MAG™ CHOKE TUBES

ITEM #	LEAD SHOT PATTERN	STEEL SHOT PATTERN*	Extended Or Flush Fitting
95256	Skeet	Skeet	Flush
95252	Improved Cylinder	Mod T & F	Flush
95270	Improved Cylinder	Mod T & F	Ext. Port.
95253	Modified	Mod. #2 & BB	Flush
95280	Modified	Mod. #2 & BB	Ext. Port.
95254	Full	Full #2 & BB	Flush
95290	Full	Full #2 & BB	Ext. Port.
95255	X-Full (Steel)	X-Full (Steel)	Flush
95251	XX-Full Turkey (Lead Only)	Do Not Use	Flush
95258	Ulti-Full Turkey	Do Not Use	Ext. Port.
95257	Ulti-Full Turkey	Do Not Use	Ext.

* Lead, steel, and other non-toxic shot patterns will vary substantially depending on shell length, shot size, brand of ammunition, and the individual barrel. The shooter is urged to conduct pattern tests before field use.

SLUGS: Overbored 835® Model Accu-Mag barrels are designed for lead or steel pellet shot loads only. We specifically disclaim any responsibility for damage or injury resulting from firing slugs (single projectile ammunition) through overbored barrels. Use only 835 Model barrels designed specifically for slug shooting.

ACCU-MAG™ ULTI-FULL™ TURKEY TUBE

The NATIONAL WILD TURKEY FEDERATION has determined that the average distance at which turkeys are most effectively taken, under average environmental conditions and surroundings is 30 yards.

Subsequently, Mossberg® designed and manufactures highly specialized choke tubes for #4 or #6 lead shot to yield a high shot concentration and pellet count in a 20 inch circle at 30 yards. Shot patterns at distances greater than 30 yards will be less dense.

These special purpose "Turkey Tubes" are specifically designed for use with lead shot loads only.

Do not shoot steel shot through Extra Full turkey tubes as it may result in barrel damage.

Test results are averages and individual shotgun performance may vary. Mossberg recommends pattern testing with several brands of ammunition and at various distances to familiarize yourself with your shotgun's performance.

MUZZLELOADER CONVERSION BARREL

Do not attempt to assemble, load or use the Muzzleloading barrel until you thoroughly read and understand the information contained in this shotgun Owner's Manual and the contents of the Muzzleloading Barrel Owner's Manual.

You have a responsibility to obtain proper training on how to use and maintain your firearm. Certified and reputable instructions are offered by the National Rifle Association, The National Muzzleloading Rifle Association, Black Powder Association as well as state and local organizations. Seek guidance from an instructor who is qualified by one of these organizations.

Be certain the shotgun Owner's Manual and the Muzzleloading Barrel Owner's Manual are available for reference and supplied with the shotgun and/or the Muzzleloading Barrel if transferred to another party.

If either manual is lost or misplaced, request a free replacement copy from Mossberg.

Consult your local Department of Natural Resources and Wildlife or guidelines to confirm that this muzzleloading product will conform to local seasonal and legal requirements.

SERVICE INSTRUCTIONS

Should your firearm, or any component of your firearm require service, kindly ship your entire firearm (please do not send components only), via your chosen carrier, postage paid (we do not accept C.O.D. shipments) following these instructions:

Make absolutely certain your firearm is unloaded.
Do not send ammunition with your firearm.

Remove all accessories from your firearm such as scopes, slings, swivels, mounts, etc.

Ship your firearm in a suitable container, packaging it securely to prevent parts from shifting and/or harm during shipping.

Include a note with a clear description of the service you wish us to perform, your complete return shipping address (no P.O. boxes please), your daytime telephone number and your e-mail address (if available). It is advisable to place your correspondence inside your shipping container when shipping.

SHIPPING ADDRESS
Product Service Center
Maverick Arms, Inc.
1001 Industrial Blvd.
Eagle Pass Industrial Park
Eagle Pass, TX 78853
Attn: Repair

If you have any questions, please contact us at 800-363-3555 or service@mossberg.com

TO ORDER PARTS
To order parts from our authorized Product Service Center, you can fax, phone, mail, or e-mail your order to us at one of the following numbers/addresses.

Fax Number:	(830) 773-5893
Phone Number:	(830) 773-9007
E-mail Address:	service@mossberg.com
Mailing Address:	Product Service Center Maverick Arms, Inc. 1001 Industrial Blvd. Eagle Pass Industrial Park Eagle Pass, TX 78853 Attention: Order Department

Please provide your name, street address, daytime phone number and e-mail (if available). We will need Model #, Serial #, Gauge/Caliber, Finish, Part # and Part Name. We have a $7.50 (U.S.) minimum parts order charge. We accept most major credit cards, money orders, and bank drafts.

Service outside of the U.S.A.
For Mossberg firearm parts and service requirements outside of the United States, customers are requested to contact the closest Mossberg stocking dealer/distributor.

MOSSBERG WARRANTY

500®, 505™, 535™, 590® and 835® MODEL SHOTGUNS

TEN (10) YEAR LIMITED WARRANTY

Limited Warranty: O.F. Mossberg & Sons, Inc., ("Mossberg") warrants to you, the original retail purchaser of a new Mossberg® 500®, 505™, 535™, 590® or 835® Shotgun (the "Mossberg firearm"), that the Mossberg firearm will be free of defects in material or manufacture for a period of ten (10) years from the date of your purchase of the new Mossberg firearm (the "Warranty Period") in the United States or Canada. This is the only express warranty on the Mossberg firearm. MOSSBERG MAKES NO OTHER WARRANTIES OF ANY KIND OR CONDITIONS, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This Limited Warranty gives you specific legal rights, any you may have other rights that vary from State to State.

Purchaser's Remedy: During the Warranty Period, Mossberg will, at its sole option, (1) repair the Mossberg firearm or any part thereof that, upon examination and testing by Mossberg, does not conform to the Limited Warranty without charge to you for parts or labor, or (2) replace the Mossberg firearm with a new or similar model. THIS REMEDY SHALL BE YOUR EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY. MOSSBERG SHALL NOT BE RESPONSIBLE FOR ANY OTHER EXPENSES, LOSSES OR INCONVENIENCE THAT YOU MAY SUSTAIN AS A RESULT OF THE PURCHASE, USE, MALFUNCTION OR DEFECTIVE CONDITION OF THE MOSSBERG FIREARM. Mossberg reserves the right to inspect, examine and/or test the Mossberg firearm to assess any claim made under the Limited Warranty.

EXCLUSIONS: THIS WARRANTY DOES NOT COVER THE COSMETIC APPEARANCE OF THE MOSSBERG FIREARM OR ANY DAMAGE CAUSED BY:

(1) NORMAL WEAR AND TEAR;
(2) FAILURE TO PERFORM PROPER CARE AND MAINTENANCE;
(3) ACCIDENTS, ABUSE OR NEGLECT;
(4) BARREL OR BORE OBSTRUCTIONS;
(5) FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS THAT ACCOMPANY THE MOSSBERG FIREARM; OR
(6) THE USE OF DEFECTIVE, NON-SAAMI STANDARD, REMANUFACTURED, HAND-LOADED, AND/OR RELOADED AMMUNITION.

IN ADDITION, ANY UNAUTHORIZED REPAIRS, ALTERATIONS OR MODIFICATIONS TO THE MOSSBERG FIREARM WILL AUTOMATICALLY VOID THE LIMITED WARRANTY.

LIMITATION OF DAMAGES: EXCEPT WHERE PROHIBITED BY LAW, MOSSBERG WILL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER ARISING FROM THE USE OF THIS MOSSBERG FIREARM, WHETHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE, REGARDLESS OF THE LEGAL THEORY ASSERTED, INCLUDING CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Warranty Service: To obtain service under this Limited Warranty, you must follow the instructions found in the "Service Instructions" section of the Owner's Manual and return the Mossberg firearm to the authorized Product Service Center. You are responsible for all shipping costs to the Product Service Center. Mossberg will not accept COD shipments of any Mossberg firearm for service. After repair or replacement, the Mossberg firearm or a similar model will be returned to you, return postage paid by Mossberg. If we replace the Mossberg firearm, we will keep the firearm that you returned to Mossberg.

Modification of Warranty: No agent, representative, distributor, or authorized dealer of Mossberg firearms has any authority to modify the terms or conditions of the Limited Warranty in any way. The Limited Warranty may only be modified in writing by an authorized officer of Mossberg.

THIS LIMITED WARRANTY IS EFFECTIVE JANUARY 1, 2003.

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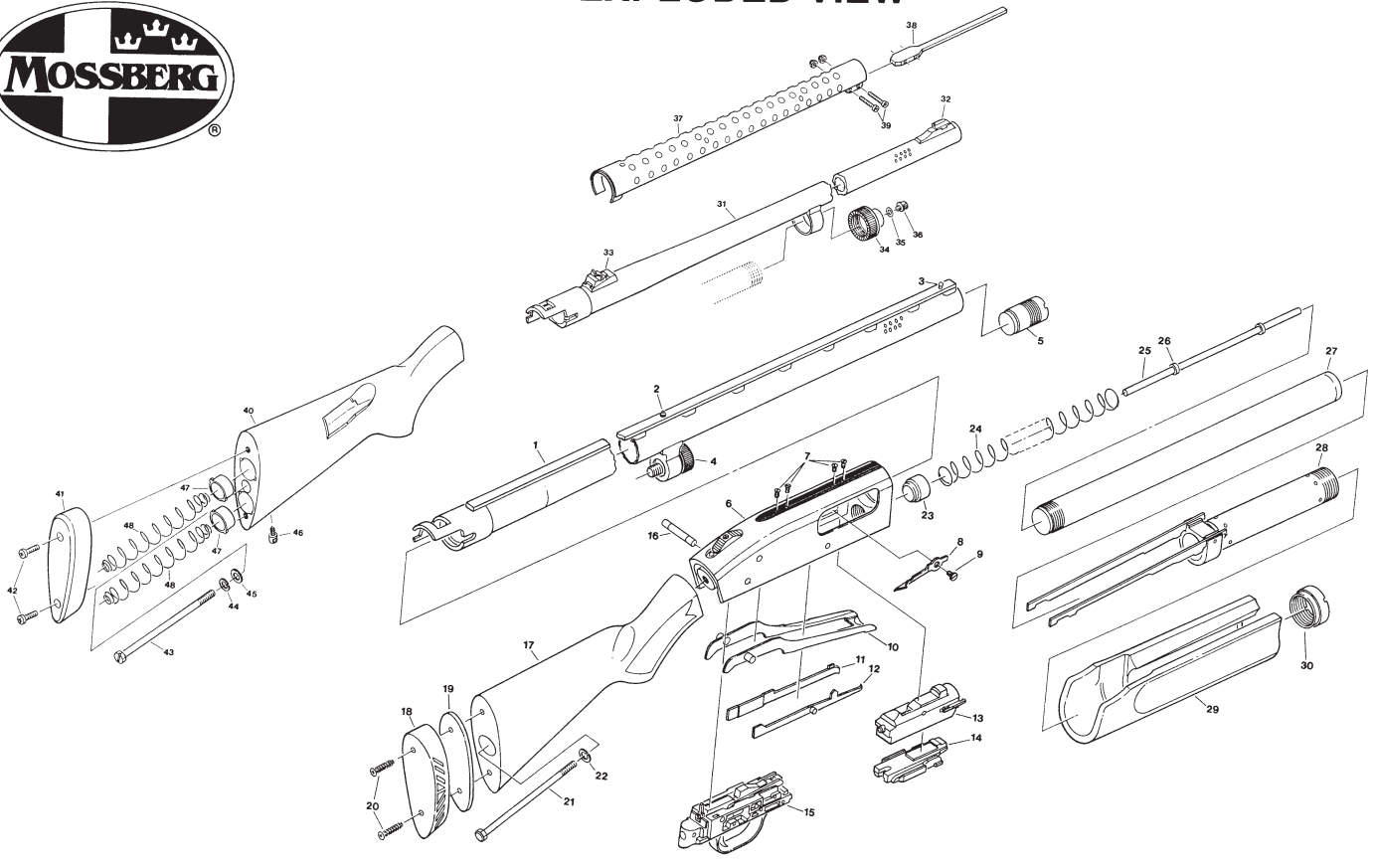
PARTS LIST

ITEM NO.	DESCRIPTION
1.	Barrel assembly
2.	Mid-point bead
3.	Front sight
4.	Takedown screw (model 500®/505™/535™)
5.	Choke tube
*6.	Receiver
7.	Scope mount dummy screws
8.	Ejector
9.	Ejector screw
10.	Elevator
11.	Cartridge stop
12.	Cartridge interrupter
*13.	Bolt assembly
*14.	Bolt slide
*15.	Trigger housing assembly
16.	Trigger housing pin
17.	Stock
18.	Recoil pad
19.	Spacer
20.	Recoil pad screw
21.	Stock bolt
22.	Lock washer
23.	Ejector follower
24.	Magazine spring

ITEM NO.	DESCRIPTION
25.	Limiting plug
26.	Retaining 'O' ring
27.	Magazine tube
28.	Action slide assembly
29.	Forearm
30.	Action slide tube nut
31.	Rifled barrel
32.	Front sight assembly
33.	Rear rifle sight assembly
34.	Magazine cap (model 590®/835®)
35.	Retaining washer
36.	Front swivel stud
37.	Heat shield
38.	Heat shield spacer
39.	Heat shield screw/nuts
40.	Speedfeed® stock
41.	Speedfeed® recoil pad
42.	Speedfeed® recoil pad screws
43.	Speedfeed stock bolt
44.	Lock washer
45.	Flat washer
46.	Stock swivel Q.D. post
47.	Speedfeed® followers
48.	Speedfeed® springs

*Restricted Item

EXPLODED VIEW



FIREARMS SAFETY DEPENDS ON YOU. MAKE NO MISTAKE ABOUT IT!

From the time an individual picks up a firearm, that individual shooter becomes a part of a system over which he has complete control. He is the only part of the system that can make a gun safe – or unsafe. Hunting and target shooting are among the safest of all sports. This booklet is intended to make them even safer – by re-emphasizing and reaffirming the basics of safe gun handling and storage and by reminding each individual shooter that he or she is the key to firearms safety. You can help meet this responsibility by enrolling in hunter safety or shooting safety courses. You must constantly stress safety when handling firearms, especially to children and non-shooters. Newcomers in particular must be closely supervised when handling firearms with which they may not be acquainted. Don't be timid when it comes to gun safety. If you observe anyone violating any safety precautions, you have an obligation to suggest safer handling practices, such a those in this booklet. Please read these rules carefully and follow the safety procedures outlined. Firearms safety is up to you. Make no mistake about it.

1. **ALWAYS KEEP THE MUZZLE POINTED IN A SAFE DIRECTION**
2. **FIREARMS SHOULD BE UNLOADED WHEN NOT ACTUALLY IN USE**
3. **DON'T RELY ON YOUR GUN'S "SAFETY"**
4. **BE SURE OF YOUR TARGET AND WHAT'S BEYOND IT**
5. **USE CORRECT AMMUNITION**
6. **IF YOUR GUN FAILS TO FIRE WHEN THE TRIGGER IS PULLED, HANDLE WITH CARE**
7. **ALWAYS WEAR EYE AND EAR PROTECTION WHEN SHOOTING**
8. **BE SURE THE BARREL IS CLEAR OF OBSTRUCTIONS BEFORE SHOOTING**
9. **DO NOT ALTER OR MODIFY YOUR GUN, AND HAVE GUNS SERVICED REGULARLY**
10. **LEARN THE MECHANICAL AND HANDLING CHARACTERISTICS OF THE FIREARM YOU ARE USING**

Courtesy of
Sporting Arms and Ammunition Manufacturers' Institute, Inc.